

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A digital still camera comprising:
a photographing optical system that forms a subject image by capturing a subject;
a body, to which said photographing optical system is connected;
an image sensor ~~arranged provided~~ in said body ~~and backward of~~ behind said photographing optical system along an optical axis defined by said photographing optical system, light from said photographing optical system passing through a light-path space formed between said photographing optical system and said image sensor along the optical axis, the subject image being formed on a light-receiving area of said image sensor by the light;
a half mirror, provided in said light-path space and inclined toward the photographing optical system, that directs the light from said photographing optical system toward said image sensor and toward along a focus detecting direction different distinct from the optical axis;
a mirror driver that temporarily moves said half mirror to a predetermined position

such that said half mirror does not interrupt a light-path of the light directed from said photographing optical system to said light-receiving area;

a phase difference focus detector provided outside said light-path space and along the focus detecting direction, that detects whether ~~or not~~ the subject image is focused in accordance with a phase difference ~~obtained from~~ of light directed by said half mirror;

a focus adjuster positioned under said light-path space that focuses the subject image in accordance with the phase difference; and

a recording processor that exposes said image sensor for a given predetermined period, controls said mirror driver to temporarily move said half mirror out of said light-path space while said image sensor is exposed, and records the subject image as data in a recording medium provided in said body;

wherein said half mirror is arranged positioned in said light-path space such that all of the light directed from said photographing optical system to said image sensor substantially passes through said half mirror.

2. (Currently Amended) The digital still camera of claim 1, wherein a size of said half mirror is ~~one of at least~~ equal to ~~and larger than~~ a size of said light-receiving area and said half mirror is angled with respect to the optical axis such that a projection area of said half mirror along the optical axis becomes ~~one of is at least~~ equal to ~~and larger than~~ the size of said light-receiving area.

3. (Cancelled)
4. (Original) The digital still camera of claim 1, further comprising a viewfinder that forms an observed optical subject image.
5. (Original) The digital still camera of claim 1, further comprising an incident light metering processor that detects brightness of the subject in accordance with the subject image formed on said light-receiving area.
6. (Currently Amended) The digital still camera of claim 1, further comprising:
a moving image display for displaying the subject image as a moving image; and
a displaying processor that displays the subject image on said display on the basis of the pixel signals read from said image sensor.
7. (Currently Amended) The digital still camera of claim 6, wherein said moving image display is arranged provided in said body, and
wherein said body includes a magnifying optical system that magnifies the subject image displayed on said moving image display, said magnifying optical system being arranged backward of positioned behind said moving image display such that the subject image is observed observable from outside of said body.
8. (Currently Amended) The digital still camera of claim 6, wherein said moving image display is provided on a back surface of said body.
9. (Cancelled)

10. (Currently Amended) The digital still camera of claim [[9]] 1, further comprising a shutter provided between said half mirror and said image sensor, ~~that opens and closes and configured to open and close,~~

wherein said recording processor temporarily closes ~~down~~ said shutter until said half mirror is moved out of said light-path space and opens said shutter for a given period after said half mirror is ~~removed from~~ moved out of said light-path space.

11. (Currently Amended) The digital still camera of claim 1, wherein said photographing optical system is an interchangeable optical system, ~~which is applied for used with~~ an SLR (Single Lens Reflex) camera using a photographic film.

12. (Currently Amended) A digital still camera comprising:

a photographing optical system that forms a subject image by capturing a subject; a body, to which said photographing optical system is connected; an image sensor ~~arranged provided~~ in said body ~~and backward of~~ behind said photographing optical system along an optical axis defined by said photographing optical system, light from said photographing optical system passing through a light-path space formed between said photographing optical system and said image sensor along the optical axis, the subject image being formed on a light-receiving area of said image sensor by the light;

a half mirror, provided in said light-path space and inclined toward said

photographing optical system, that directs the light from said photographing optical system along toward said image sensor and toward along a focus detecting direction different distinct from the optical axis;

a mirror driver that temporarily moves said half mirror to a predetermined position such that said half mirror does not interrupt a light-path of the light directed from said photographing optical system to said light-receiving area; and

a phase difference focus detector provided outside said light-path space and along the focus detecting direction, that detects whether ~~or not~~ the subject image is focused in accordance with a phase difference ~~obtained from~~ of light directed by said half mirror,

wherein said half mirror is arranged positioned in said light-path space such that all of the light directed from said photographing optical system to said image sensor substantially passes through said half mirror.

13. (New) The digital still camera of claim 1, wherein said focus adjuster comprises a focusing lens, and said recording processor controls said focus adjuster to temporarily shift said focusing lens along the optical axis by the optical path length of said half mirror while said image sensor is exposed.